IT-800 Series

CASIO

The Compact, Robust, Fully-featured PDA
Built to survive with the power to deliver

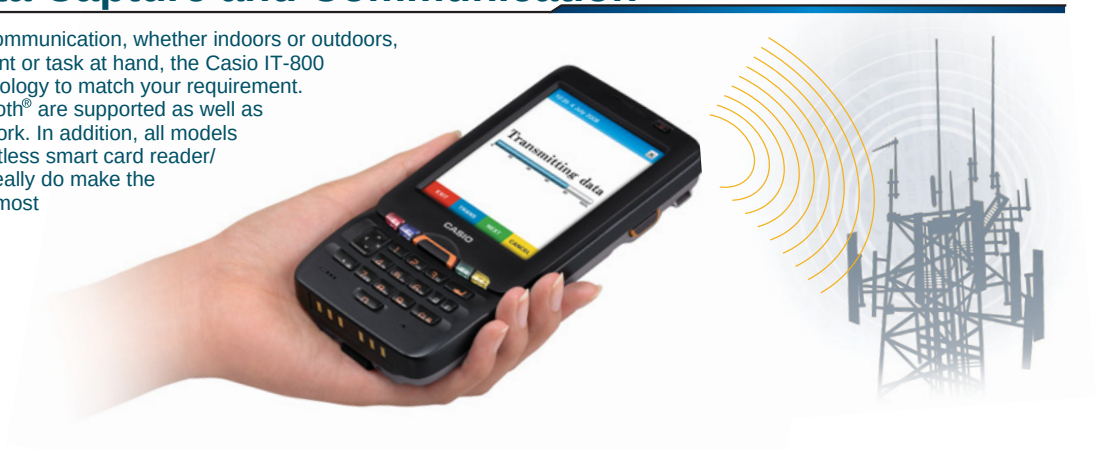
- Multiple wireless communication options provide the connectivity to support real-time data capture and transfer.
- C-MOS imager scanning technologies (also available without scanner but with SDIO slot)
- High-density case design delivers maximum toughness in harsh conditions.
- Casio VGA color LCD with touch panel provides a vibrant image along with low power consumption and amazing impact protection.
- Windows Mobile® 6.5 OS for industry standard compatibility with development tools and enterprise infrastructures.
- Integrated contactless smart card reader/writer with NFC technology.
- 2.0 megapixel color digital camera with autofocus and flash.

Windows Mobile® Bluetooth®

The IT-800 combines toughness and durability in a compact and elegant design to suit a wide variety of business environments.

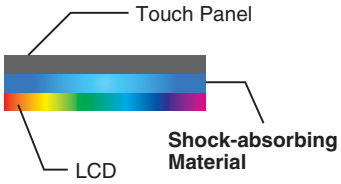
On-Demand Data Capture and Communication

For on-demand data capture and real-time communication, whether indoors or outdoors, day or night and regardless of the environment or task at hand, the Casio IT-800 series offers a wireless communication technology to match your requirement. High speed 3G WWAN (HSDPA) and Bluetooth® are supported as well as mobile phone capability using the GSM network. In addition, all models of the IT-800 come with an integrated contactless smart card reader/writer. These combinations of technologies really do make the IT-800 the ultimate industrial PDA for use in most business applications.



Casio Original Impact Resistant LCD Display

The IT-800 is fitted with the very latest Casio "Blanview®" LCD technology. This Casio original development features a number of technical breakthroughs in LCD design that give it industry-leading brightness and contrast ratio. Text and images on the screen are highly visible in all lighting conditions, including strong sunlight. In addition, the Casio LCD consumes far less power than conventional designs and this translates into a much enhanced battery life for the device as whole. The display has been designed to incorporate a shock-absorbing material between the touch panel and LCD and this can absorb considerable impacts to any part of the surface of the panel resulting in far less damage and breakages than with conventional screens.

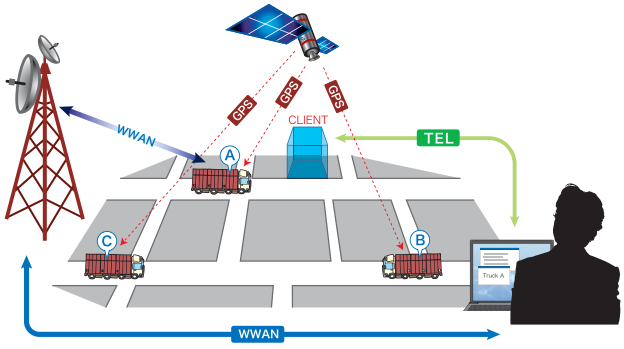


Contactless Smart Card Reader/Writer

Contactless smart card reader/writer with NFC (Near Field Communication) technology is a short range wireless communication technology for data exchange. Typically used for passenger transport ticketing and ID or membership cards it provides a robust and secure method for users and customers to interact with a handheld device.
All models of the IT-800 series have integrated contactless smart card reader/writer compliant with ISO14443 Type A/Type B cards and compatible with FeliCa® technology. Applications such as secure user login or access control and passenger ticket inspection are just some of the possible uses.

GPS Functionality

The highly sensitive GPS transceiver integrated in all WWAN models of the IT-800 series enables real-time location based applications to be developed. Such benefits as more efficient routing of logistics, post, retail or indeed any field based workers can lead to significant savings in fuel and labor costs. Furthermore, the GPS tagging of work-flow events such as the delivery of a parcel or the capturing of an image for evidence purposes offer increased traceability within your solutions and to improvements in customer service.



Superb Scanning Capability

The IT-800 uses C-MOS imager for reading both 1D and 2D symbologies. This CMOS imager has a variety of features for achieving optimum reading performance in all environments. These include an improved decode engine and enhanced hardware performance including a high speed CPU and large RAM capacity.

Advanced features such as 3G WWAN communication using HSDPA and the ability to read and write contactless smart cards open up endless possibilities for innovative applications.

Maximum Toughness in Harsh Conditions

Casio design and manufacture handheld terminals to deliver outstanding performance in all kinds of environments including those where rough handling is likely. The IT-800 has been designed to deliver maximum toughness and durability and this is rigorously tested in a series of environmental tests during the development phase. It is dust and water splash-proof to IP54 level (compliant with the IEC60529 standard), shock-resistant against drops to concrete from a height of up to 1.5 meters and vibration tested up to 3G in line with relevant international standards. The display panel is subjected to an impact durability test that involves a 530g steel ball being dropped onto it from a height of 25cm. The IT-800 will operate in temperatures between -20°C and +50°C.

Display panel impact test

Water-splash proof test

Dust proof test

Drop durability test

Vibration test

Human-Centered Design

With its stylish and ergonomic design and a weight of only 340g for the fully-featured model, the IT-800 can comfortably fit into a pocket. The keypad has been carefully designed to be compact yet easy to use with the most commonly used keys all within easy reach of the user's thumb. There are four color coded function keys (F1 to F4), separated slightly from the main keys, and three trigger keys allowing the device to be easily used in either hand. The ergonomics of the device are all the result of actual testing and development in accordance with the internationally recognized ISO13407 standard.

2.0 Megapixel Camera with Autofocus

A 2.0 megapixel color digital camera is integrated in some models of the IT-800. With its powerful autofocus feature, this camera can capture high quality images for such tasks as identifying damaged goods, document capture and vehicle license number identification. The capturing of digital images can be incorporated seamlessly into the work-flow of the application without the need to use a separate camera or reconcile images and data records from two different devices. The potential for enhancement to solutions and increases in efficiency are virtually limitless.

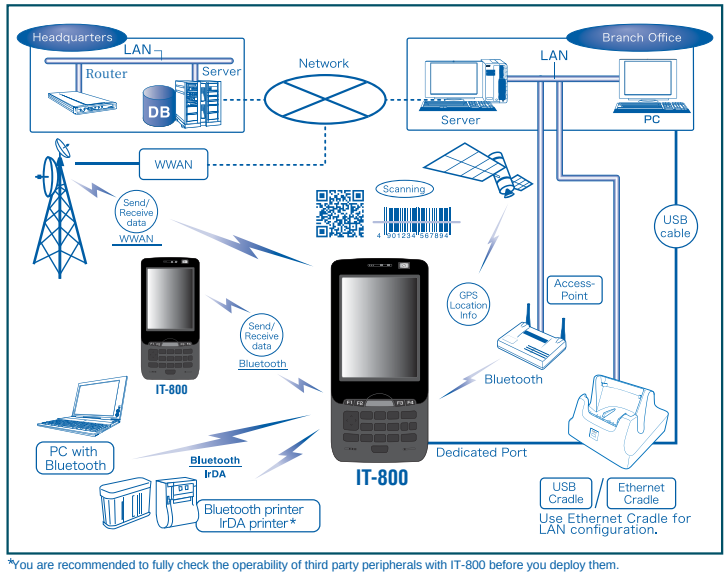
Microsoft® Windows Mobile® 6.5

The IT-800 series comes with Windows Mobile® Version 6.5 as the operating platform. Two editions are available: Professional for WWAN models and Classic for other models. This is the latest platform for mobile devices and PDAs and is ideally suited for use as a basis for an enterprise or business solution. Windows Mobile 6.5 brings you the latest enhancements to the PDA user interface, allows efficient handling of various wireless technologies and opens up the possibility to run existing commercially available packages and software for the Windows Mobile family of devices.

Versatile Configurations

An SDIO slot, microSD slot and SIM card slot, all with industry standard specifications, are integrated dependent on the model. A special expansion port on the back of the device allows extra optional devices to be added to create a truly tailored version of the IT-800 to adapt to new and emerging technologies.

IT-800 Series System Configuration



*You are recommended to fully check the operability of third party peripherals with IT-800 before you deploy them.

GENERAL GUIDE / OPTIONS

Model Selection

Model No.	2D Imager	SD slot	Bluetooth	WAN, GPS	NFC*	Camera
IT-800EC-05		√	√		√	√
IT-800GC-05		√	√	√	√	√
IT-800EC-35	Imager		√		√	√
IT-800GC-35	Imager		√	√	√	√

* ; Contactless smart card reader/writer with NFC technology

Battery Pack
HA-D20BAT

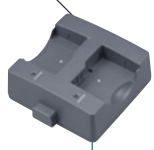
Large-capacity Battery Pack
HA-D21LBAT

Cradle-type Battery Charger
HA-H30CHG

USB Cradle
HA-H60IO

Ethernet Cradle
HA-H62IO

Dual Battery Charger
HA-D32DCHG



Car Mounted-type Battery Charger
HA-H35CHG

Power Cord
AC-CORD-US

AC Adaptor
AD-S15050B

AC Adaptor
AD-S42120B

SPECIFICATIONS

CPU		Marvell® Xscale Processor PXA320 624MHz (maximum)
OS		Microsoft® Windows Mobile® 6.5 English Version
Memory		
	RAM	128 MB
	F-ROM	256 MB (User area approx. 150 MB)
Display		
	Type	9.4 cm (3.7 inches) VGA Color LCD with Touch Panel Casio's original LCD (Blanview®)
	Resolution	480 x 640 dots, 65,536 colors
	Backlight	LED
	Indicators	Indicator 1; battery charging status, Indicator 2; communication status
Input		
	Keyboard	Numeric (Alphabet) keys, CLR key, Center key, L and R trigger keys, Up/Down key (model dependent), Cursor key, Power key, Fn key, F1 to F4 keys, Font key, Enter key
Wireless communication		
	Bluetooth	Bluetooth® Version 2.0+EDR compatible
	Infrared	IrDA 1.3 compatible (Maximum : 4 Mbps)
	WWAN(model dependent)	HSDPA, UMTS, EGPRS(EDGE), GPRS, GSM(850/900/1800/1900 MHz)
	GPS (model dependent)	16 channel-receiver, L1 1575.42 MHz, C/A code, NMEA-0183 protocol
	Contactless Smart Card Reader/Writer	13.56MHz Compatible with ISO14443 Types A/B and FeliCa® technology*1
C-MOS imager		
	Type	CMOS imager, 752 x 480 (wide VGA), monochrome
	Aimer	Laser 650+10/-5nm, 1mW or less
	Resolution	1D: 0.15 mm 2D Stacked: 0.169 mm 2D Matrix: 0.25 mm
	Readable symbologies	1D: EAN8, EAN13, UPC-A/E, Codabar(NW-7), CODE11, CODE32, CODE39, CODE93, CODE128/GS1-128(UCC/EAN128), ITF, MSI, IATA, ISBT, Industrial 2of5, GS1 DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Limited, GS1 DataBar Expanded 2D Stacked: PDF417, Micro PDF, CODE49, Composite, Codablock F, TLC39, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Expanded Stacked, 2D Matrix: Aztec, DataMatrix, Maxicode, QR Code, Micro QR
Digital camera (model dependent)		2.0 megapixel autofocus color camera with LED flash

Interface		
	SIM card	ISO7816 IC Card Standard, 3.0V/1.8V cards supported
	micro SD	Compatible with SDHC
	SDIO	For SDIO or SD memory card (model dependent)
	Extended port	For connecting an external device
	USB port	Version 1.1 (Host/Client)
Speaker		Built-in (monaural) as standard for warning sound etc.
Microphone/Receiver		Built-in (monaural) as standard for voice sound
Vibrator		Comes as standard for confirmation of bar code scans
Power		
	Operation	Lithium-ion battery pack (HA-D20BAT), Large-capacity battery pack (HA-D21LBAT)
	Capacity	HA-D20BAT 6.84 Wh (3.7V/1,850 mAh) HA-D21LBAT 13.69 Wh (3.7V/3,700 mAh)
	Memory backup	Lithium battery (rechargeable) on board
	Backup period	RAM : Approx. 10 minutes, Built-in Clock : Approx. 72 hours or longer (with memory backup battery)
Environment		
	Operating temperature	-20°C to +50°C
	Operating humidity	10% to 90%RH (no condensation)
	Dust/Water-splash proof	IP54 level (compliant with IEC60529 standard)
	Drop durability	1.5 m in height onto concrete floor *2
Dimensions and weight		
	Dimensions	Approximately 78 x 159 x 25*3 (non-WWAN models)/32 (WWAN models) mm
	Weight	Approximately 265 to 340g (model dependent) including HA-D20BAT
Application development tool		Visual Studio 2005, Visual Studio 2008, Basic Development Kit ("BDK")
Compliance		
	Safety	EN60950-1, UL60950-1
	EMC	EN301489-17 V1.2.1, EN301489, CFR47 Part15 Subpart B
	WWAN	EN301511V9.0.2, EN301908-2, CFR47 Part 22, Part 24
	GPS	EN301489-1
	SAR	EN50371, EN50360, ET DOCKET 93-62 and OET Bulletin 65, ES59005/ANSI C95.1
	Bluetooth type approval	EN300328/EN301489-17, CFR47 Part 15 Subpart C Bluetooth logo certification
	Contactless Smart Card Reader/Writer	EN300330, CFR47 Part15 Subpart C 15.225
	Laser/LED	IEC60825-1, CFR Title 21 Subpart 1000

*1; Contactless smart card technology developed by Sony Corporation.
*2; The drop durability height is a measured value resulting from actual testing. It does not necessarily guarantee the product from damage.
*3; The height does not include the protruding parts.

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